

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1-17. (Canceled)

18. (New) A dishwasher, comprising;

a tub for receiving dishes;

a sump housing which is coupled to a bottom of the tub to store washing water, the sump housing including a heater receiving portion;

a nozzle assembly including an upper nozzle and a lower nozzle to spray washing water onto the dishes;

a washing pump placed within the sump housing to pump out the washing water collected in the heater receiving portion, including:

a pump case, whole part of which being accommodated within the heater receiving portion; and

an impeller disposed in the pump case;

a washing motor mounted on an outer bottom portion of the sump housing to rotate the impeller; and

a heater disposed in the heater receiving portion.

19. (New) The dishwasher according to claim 18, wherein the heater receiving portion is a groove with a predetermined depth and area enough to receive the heater.

20. (New) The dishwasher according to claim 19, wherein the washing motor is mounted on an outer bottom surface of the heater receiving portion.

21. (New) The dishwasher according to claim 18, wherein a heater insertion hole is formed on a sidewall of the sump housing.

22. (New) The dishwasher according to claim 21, wherein the heater includes:
a heating portion inserted into the heater receiving portion;
a pressing plate provided at an end portion of the heating portion, and attached to an inner surface of the sidewall to shield the heater insertion hole; and
a sealing case provided at the end portion of the heating portion, and attached to an outer surface of the sidewall to shield the heater insertion hole.

23. (New) The dishwasher according to claim 22, wherein the pressing plate and the sealing case are tightly attached to the inner and outer surfaces of the sidewall, respectively, by a tightening member including bolt and nut.

24. (New) The dishwasher according to claim 22, wherein the heating portion is bent at least three times in a meandering shape.

25. (New) A dishwasher, comprising;
a tub for receiving dishes;
a sump housing which is coupled to a bottom of the tub to store washing water;
a nozzle assembly including an upper nozzle and a lower nozzle to spray washing water onto the dishes;
a washing pump to pump out the washing water collected in the sump housing;
a washing motor mounted on an outer bottom portion of the sump housing, wherein a shaft of the motor passes through the bottom surface of the sump housing and is connected to the washing pump; and
a heater disposed in the sump housing;
wherein the water collected within the sump housing is supplied to at least the lower nozzle after being directly heated by contacting the heater.

26. (New) The dishwasher according to claim 25, wherein the shaft vertically extends from the motor.

27. (New) The dishwasher according to claim 26, wherein the sump housing includes a recess to receive the heater.

28. (New) The dishwasher according to claim 27, wherein the water discharged from the nozzle assembly is collected within the recess to be directly heated by the heater.

29. (New) The dishwasher according to claim 27, wherein the washing pump is configured to pump out the water in the recess to at least the lower nozzle.

30. (New) The dishwasher according to claim 25, wherein a heater insertion hole is formed on a sidewall of the sump housing.

31. (New) The dishwasher according to claim 30, wherein the heater includes:
a heating portion inserted into the heater receiving portion;
a pressing plate provided at an end portion of the heating portion, and attached to an inner surface of the sidewall to shield the heater insertion hole; and
a sealing case provided at the end portion of the heating portion, and attached to an outer surface of the sidewall to shield the heater insertion hole.

32. (New) The dishwasher according to claim 31, wherein the pressing plate and the sealing case are tightly attached to the inner and outer surfaces of the sidewall, respectively, by a tightening member including bolt and nut.

33. (New) The dishwasher according to claim 31, wherein the heating portion is bent at least three times in a meandering shape.